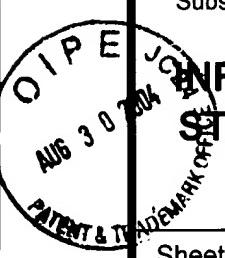


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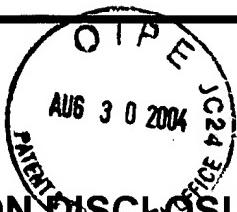
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Complete if Known

Application Number	09/620,544
Filing Date	07/21/2000
First Named Inventor	Petro Estakhri
Group Art Unit	2188
Examiner Name	Reginald G. Bragdon
Attorney Docket Number	38979-11C4

U.S. PATENT DOCUMENTS

		U.S. Patent Document		Date of Publication of	Pages, Columns, Lines,
	A1	2003/0033471	A1	Lin et al.	02/13/2003
	A2	6,411,546	B1	Estakhri et al.	06/05/2002
	A3	6,397,314	B1	Estakhri et al.	05/28/2002
	A4	6,393,513	B2	Estakhri et al.	05/21/2002
	A5	6,374,337	B1	Estakhri	04/16/2002
	A6	6,279,114	B1	Toombs et al.	08/21/2001
	A7	6,279,069	B1	Robinson et al.	08/21/2001
	A8	6,272,610	B1	Katayama et al.	08/07/2001
	A9	6,262,918	B1	Estakhri et al.	07/17/2001
	A10	6,230,234	B1	Estakhri et al.	05/08/2001
	A11	6,226,708	B1	McGoldrick et al.	05/01/2001
	A12	6,223,308	B1	Estakhri et al.	04/24/2001
	A13	6,202,138	B1	Estakhri et al.	03/13/2000
	A14	6,182,162	B1	Estakhri et al.	01/30/2001
	A15	6,181,118	B1	Meehan et al.	01/30/2001
	A16	6,173,362	B1	Yoda	01/09/2001
	A17	6,151,247		Estakhri et al.	11/21/2000
	A18	6,145,051		Estakhri et al.	11/07/2000
	A19	6,141,249		Estakhri et al.	10/31/2000
	A20	6,134,151		Estakhri et al.	10/17/2000
	A21	6,134,145		Wong	10/17/2000
	A22	6,128,695		Estakhri et al.	10/03/2000
	A23	6,125,435		Estakhri et al.	09/26/2000
	A24	6,125,424		Komatsu et al.	09/26/2000
	A25	6,122,195		Estakhri et al.	09/19/2000
	A26	6,115,785		Estakhri et al.	09/05/2000
	A27	6,097,666		Sakui et al.	08/01/2000
	A28	6,081,878		Estakhri et al.	06/27/2000
	A29	6,081,447		Lofgren et al.	06/27/2000
	A30	6,072,796		Christensen et al.	06/06/2000
	A31	6,055,188		Takeuchi et al.	04/25/2000
	A32	6,055,184		Acharya et al.	04/25/2000
	A33	6,047,352		Lakhani et al.	04/04/2000
	A34	6,040,997		Estakhri	03/21/2000
	A35	6,035,357		Sakaki	03/07/2000
	A36	6,034,897		Estakhri et al.	03/07/2000
	A37	6,026,027		Terrell, II et al.	02/15/2000
	A38	6,026,020		Matsubara et al.	02/15/2000
	A39	6,021,408		Ledain et al.	02/01/2000
	A40	6,011,323		Camp	01/04/2000
	A41	6,011,322		Hiraka	01/04/2000
	A42	5,991,849		Yamada et al.	11/23/1999
	A43	5,987,573		Hiraka	11/16/1999



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	09/620,544				
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Attorney Docket Number	38979-11C4				
Sheet	2	of	6		
	A44	5,987,563		Itoh et al.	11/16/1999
	A45	5,986,933		Takeuchi et al.	11/16/1999
	A46	5,966,727		Nishino et al.	10/12/1999
	A47	5,959,926		Jones et al.	09/28/1999
	A48	5,956,473		Ma et al.	09/21/1999
	A49	5,953,737		Estakhri et al.	09/14/1999
	A50	5,937,425		Ban	08/10/1999
	A51	5,936,971		Harari et al.	08/10/1999
	A52	5,933,846		Endo	08/03/1999
	A53	5,933,368		Ma et al.	08/03/1999
	A54	5,930,815		Estakhri et al.	07/27/1999
	A55	5,928,370		Asnaashari	07/27/1999
	A56	5,920,884		Jennings, III et al.	07/06/1999
	A57	5,909,586		Anderson	06/01/1999
	A58	5,907,856		Estakhri et al.	05/25/1999
	A59	5,901,086		Wang et al.	05/04/1999
	A60	5,890,192		Lee et al.	03/30/1999
	A61	5,862,099		Gannage et al.	01/19/1999
	A62	5,860,124		Matthews et al.	01/12/1999
	A63	5,860,083		Sukeawa	01/12/1999
	A64	5,847,552		Brown	12/08/1998
	A65	5,845,313		Estakhri et al.	12/01/1998
	A66	5,835,935		Estakhri et al.	11/10/1998
	A67	5,831,929		Manning	11/03/1998
	A68	5,822,781		Wells et al.	10/13/1998
	A69	5,822,252		Lee et al.	10/13/1998
	A70	5,822,245		Gupta et al.	01/13/1998
	A71	5,818,781		Estakhri et al.	10/06/1998
	A72	5,809,560		Schneider	09/15/1998
	A73	5,809,558		Matthews et al.	09/15/1998
	A74	5,809,515		Kaki et al.	09/15/1998
	A75	5,802,551		Komatsu et al.	09/01/1998
	A76	5,799,168		Ban	08/25/1998
	A77	5,787,484		Norman	07/28/1998
	A78	5,787,445		Daberko	07/28/1998
	A79	5,781,478		Takeuchi et al.	07/14/1998
	A80	5,773,901		Kanter	06/30/1998
	A81	5,768,195		Nakamura et al.	06/16/1998
	A82	5,768,190		Tanaka et al.	06/16/1998
	A83	5,761,117		Uchino et al.	06/02/1998
	A84	5,758,100		Odisho	05/26/1998
	A85	5,757,712		Nagel et al.	05/26/1998
	A86	5,754,567		Norman	05/19/1998
	A87	5,745,418		Ma et al.	04/28/1998
	A88	5,734,567		Griffiths et al.	03/31/1998
	A89	5,723,990		Roohparvar	03/03/1998

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

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First Named Inventor	Petro Estakhri		
Group Art Unit	2188		
Examiner Name	Reginald G. Bragdon		
Attorney Docket Number	38979-11C4		
A90	5,648,929	Miyamoto	07/15/1997
A91	5,611,067	Okamoto et al.	03/11/1997
A92	5,603,001	Sukegawa et al.	02/11/1997
A93	5,602,987	Harari et al.	02/11/1997
A94	5,598,370	Niisima et al.	01/28/1997
A95	5,592,415	Kato et al.	01/07/1997
A96	5,581,723	Hasbun et al.	12/03/1996
A97	5,579,502	Konishi et al.	11/26/1996
A98	5,572,466	Sukegawa	11/05/1996
A99	5,552,698	Tai et al.	09/03/1996
A100	5,544,356	Robinson	08/06/1996
A101	5,541,551	Brehner et al.	07/30/1996
A102	5,530,938	Akasaki et al.	06/25/1996
A103	5,530,828	Kaki et al.	06/25/1996
A104	5,530,673	Tobita et al.	06/25/1996
A105	5,524,230	Sakaue et al.	06/04/1996
A106	5,523,980	Sakui et al.	06/04/1996
A107	5,519,847	Fandrich et al.	05/21/1996
A108	5,515,333	Fujita et al.	05/07/1996
A109	5,513,138	Manabe et al.	04/30/1996
A110	5,490,117	Oda et al.	02/06/1996
A111	5,479,638	Assar et al.	12/26/1995
A112	5,473,765	Gibbons et al.	12/05/1995
A113	5,465,338	Clay	11/07/1995
A114	5,465,235	Miyamoto	11/07/1995
A115	5,431,330	Wieres	07/11/1995
A116	5,430,682	Ishikawa et al.	07/04/1995
A117	5,422,856	Sasaki et al.	06/06/1995
A118	5,418,752	Harari et al.	05/23/1995
A119	5,406,527	Honma	04/11/1995
A120	5,404,485	Ban	04/04/1995
A121	5,388,083	Assar et al.	02/07/1995
A122	5,384,743	Rouy	01/24/1995
A123	5,382,839	Shinohara	01/17/1995
A124	5,381,539	Yanai et al.	01/10/1995
A125	5,371,702	Nakai et al.	12/06/1994
A126	5,365,127	Manley	11/15/1994
A126B	5,359,569	Fujita et al.	10/25/1994
A127	5,341,341	Fukazo	08/23/1994
A128	5,341,339	Wells	08/23/1994
A129	5,341,330	Wells et al.	08/23/1994
A130	5,329,491	Brown et al.	07/12/1994



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	4	of	6	Attorney Docket Number	38979-11C4
	A131	5,315,558		Hag	05/24/1994
	A132	5,305,278		Inoue	04/19/1994
	A133	5,305,276		Uenoyama	04/19/1994
	A134	5,303,198		Adachi et al.	04/12/1994
	A135	5,267,218		Elbert	11/30/1993
	A136	5,253,351		Yamamoto et al.	10/12/1993
	A137	5,227,714		Lou	07/13/1993
	A138	5,220,518		Haq	06/15/1993
	A139	5,218,695		Noveck et al.	06/08/1993
	A140	5,093,785		Iijima	03/03/1992
	A140A	4,970,727		Miyawaki et al.	11/13/1990
	A140B	4,970,642		Yamamura	11/13/1990
	A141	4,943,745		Watanabe et al.	07/24/1990
	A142	4,843,224		Ohta et al.	06/27/1989
	A143	4,829,169		Watanabe	05/09/1989
	A144	4,797,543		Watanabe	01/10/1989
	A145	4,788,665		Fukuda et al.	11/29/1988
	A146	4,780,855		Iida et al.	10/25/1988
	A147	4,609,833		Guterman	09/02/1986
	A148	4,532,590		Wallach et al.	07/30/1985
	A149	4,476,526		Dodd	10/09/1984
	A150	4,473,878		Zolnowsky et al.	09/25/1984
	A151	4,468,730		Dodd et al.	08/28/1984
	A152	4,414,627		Nakamura	11/08/1983
	A153	4,398,248		Hsia et al.	08/09/1983
	A154	4,309,627		Tabata	01/05/1982
	A155	4,130,900		Watanabe	12/19/1978
	A156	4,099,069		Cricchi et al.	07/04/1978
	A157	35,881 Re.		Barrett et al.	08/25/1998 (Reissued)

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Count y Code 3	Number ⁴ Kind Code ⁵ (if known)				
	B1		0 663 636	A1 Sun Microsystems, Inc.	07/19/1995		
	B2		0 619 541	A2 Hitachi, Ltd., Hitachi Keiyo Engineering Co., Ltd., Hitachi ULSI Engineering Corp.	10/12/1994		
	B3		0 617 363	A2 Sundisk Corporation	09/28/1994		
	B4		0 613 151	A2 Kabushiki Kaisha Toshiba	08/31/1994		
	B5		0 522 780	A2 International Business Machines Corporation	01/13/1993		
	B6		0 522 780	B1 International Business Machines Corporation	01/13/1993		
	B7		0 392 895	A2 Sundisk Corporation	10/17/1990		

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STATEMENT BY APPLICANT**

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Group Art Unit	2188
Examiner Name	Reginald G. Bragdon

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B8		2 304 428	Mitsubishi Denki Kabushiki Kaisha	03/19/1997		
B9		2 291 990	Memory Corporation	02/07/1996		
B10		2 251 323	Intel Corporation	07/01/1992		
B11		9-147581	Hitachi Co., Ltd., Hitachi VLSI Engineering Corp.	06/06/1997		
B12		8-69696	Toshiba Corp.	03/12/1996		
B13		8-18018	Toshiba Corp.	01/19/1996		
B14		7-93499	Hitachi Co., Ltd., Hitachi VLSI Engineering Corp., Hitachi Tobu Semiconductor Co., Ltd.	04/07/1995		
B15		7-311708	Fuji Film Micro Device K.K., Fuji Photo Film Co., Ltd.	11/28/1995		
B16		7-114499		05/02/1995		
B17		6-36578	Sony Kabushiki Kaisha	02/10/1994		
B18		6-266596	Hitachi Ltd.	09/22/1994		
B19		6-149395	NEC	05/27/1994		
B20		6-132747	Fujitsu Ltd., Fujitsu VLSI Ltd.	05/13/1994		
B21		6-131889	Toshiba Corporation	05/13/1994		
B22		6-124231	Toshiba Corporation	05/06/1994		
B23		6-124175	Sharp Corp.	05/06/1994		
B24		5-282883	Toshiba Corp.	10/29/1993		
B25		5-128877	Mitsubishi Electric Corp.	05/25/1993		
B26		4-57295	NEC Corporation	02/25/1992		
B27		4-278297	Toshiba Corp.	10/02/1992		
B28		4-268284	Fuji Photo Film Co., Ltd	09/24/1992		
B29		4-254994	Toshiba Corp.	09/10/1992		
B30		RM-37697		02/21/1996		
B31		3-228377	Toshiba Corp.	10/09/1981		
B32		1-138694	Nippon Denki Kabushiki Kaisha	05/311989		
B33		WO 94/20906	M-Systems Ltd.	09/15/1994		
B34		SU 1686449	A2 N.G. Parkhomenko, S.B. Kozelkov, V.Yu Lozbenev and S.S. Karpenko	10/23/1991		
B35		SU 1573458	A2 N.G. Parkhomenko, V. Yu. Lozbenev, V.G. Chernyaev and S.B. Kozelkov	06/23/1990		
B36		SU 1541619	A1 K.G. Semenov, N.M. Sidorov, A.I. Zhdanov, G.V. Kukhar and V.I. Potapenko	02/07/1990		
B37		SU 1515164	A1 I.V. Dementiev and A.S. Papkov	10/15/1989		
B38		SU 1408439	A1 V.V. Merkul, I.Yu. Manukin and M.N. Gurevich	07/07/1988		
B39		SU 1388877	A1 N.G. Parkhomenko, V. Yu. Lozbenev and A.P. Kuprovskij	04/15/1988		

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	C1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
		MENDEL ROSENBLUM and JOHN K. OUSTERHOUT, The Design and Implementation of a Log-Structured File System, article, 1991, 15 pgs., Berkeley, USA	
	C2	BRIAN DIPERT and MARKUS LEVY, Designing with Flash Memory, book, April 1994, 445 pgs., Annabooks, San Diego, USA	
	C4	ROSS S. FINLAYSON and DAVID R. CHERITON, An Extended File Service Exploiting Write-Once Storage, article, 1987, 10 pgs. ACM	
	C5	JASON GAIT, The Optical File Cabinet: A Random-Access File System for Write-Once Optical Disks, article, June 1988, 12 pgs., Beaverton, Oregon	
	C6	HENRY G. BAKER, Memory Management, book, 1995, 19 pgs., Springer-Verlag Berlin Heidelberg, Germany	
	C7	SAPE J. MULLENDER and ANDREW S. TANENBAUM, A Distributed File Service Based on Optimistic Concurrency Control, article, 1985, 12 pgs., ACM	
	C8	HIROSHI NAKAMURA, JUNICHI MIYAMOTO, KENICHI IMAMIYA and YOSHIHISA IWATA, A Novel Sense Amplifier for Flexible Voltage Operation NAND Flash Memories, symposium, 1995, VLSI Circuits Digest of Technical Papers., 2 pgs.	
	C9	HIROSHI NAKAMURA, JUNICHI MIYAMOTO, KENICHI IMAMIYA, YOSHIHISA IWATA, YOSHIHISA SUGIURA and HIDEKO OODAIRA, A Novel Sensing Scheme with On-Chip Page Copy for Flexible Voltage NAND Flash Memories, article, June 1996, 9 pgs., Vol. E79-C, No.6	
	C10	TAKAAKI NOZAKI, TOSHIAKI TANAKA, YOSHIRO KIJIYA, EIJI KINOSHITA, TATSUO TSUCHIYA and YUTAKA HAYASHI, A 1-Mb EEPROM with MONOS Memory Cell for Semiconductor Disk Application, article, 1991, 5 pgs., Journal Of Solid -State Circuits, Vol. 26, No. 4.	
	C11	KAI HWANG and FAYE A. BRIGGS, Computer Architecture and Parallel Processing, book, 1984, McGraw-Hill, Inc., 2 pgs., US	
	C12	WALTER LAHTI and DEAN McCARRON, State of the Art: Magnetic VS. Optical Store Data in a Flash, article, 1990, 7 pgs., Vol. 15, No. 12, McGraw-Hill, Inc., US	
	C13	RON WILSON, INTEGRATED CIRCUITS: 1-Mbit flash memories seek their role in system design, article, March 1, 1989, 2 pgs., No.6, Tulsa, OK	
	C14	S. MEHROURA, J.H. YUAN, R.A. CEMEA, W.Y. CHIEN, D.C. GUTEMAN, G. SAMACHISA, R.D. NOMAN, M. MOFIDI, W.LEE, Y. FONG, A. MIHNEA , E. HANN, R.W. GREGOR, E.P. EBERHARDT, J.R. RADOSEVICH, K.R. STILES, R.A. KOHLER, C.W. LEUNG, and T.J. MULROONEY, Serial 9Mb F EEPROM for Solid State Disk Applications, symposium, 1992, 2 pgs., Mountain View, CA	
	C15	STEVEN H. LEIBSON, Nonvolatile, in-circuit-reprogrammable memories, article, January 3, 1991, 12 pgs., EDN, Circle No.12	
	C16	RAMON CACERES, FRED DOUGLIS, KAI LI and BRIAN MARSH, Operationg System Implications of Solid-State Mobile Computers, article, 7 pgs., October 1993, Workshop on Workstation Oerping Systems	
	C17	MICHAEL WU and WILY ZWAENEPOEL, A Non-Volatile, Main Memory Storage System, 12 pgs., 1994, ACM, San Jose, CA USA	
	C18	DAVE BURSKY, Innovative flash memories match DRAM densities: available with a choice of features, flash memories are finding homes in many systems (includes related articles on the origins of flash, and on the differences between NAND and NOR flash memories), article, May 16, 1994, 9 pgs., Electronic Design, v.42, n.10, The Gale Group	
	C19	ANTHONY CATALDO, New flash enhancements up ante. (Intel's 28F400BV-120 and 28F004BV-120, Atmel's AT29BV010 and AT29BV020, and Samsung Semiconductor's KM29V32000 "flash" memory" devices)(Product Announcement), article, March 13, 1995, 4 pgs., Electronic News, v.41, n.2056, The Gale Group	
	C20	SAM WEBER, "Flash" modules' portability, reusability, small size valued for a host of APPs-Consumer formats flocking to "flash", article, 7/22/96, 9 pgs., Electronic Engineering Times, n.911, CMP Media	
	C21	TOSHIBA, MOS MEMORY (NON-VOLATILE), 1995, Data Book	
	C22	STAN BAKER, BUT INTEGRATION CALLS FOR HARDWARE, SOFTWARE CHANGES: Flash: designers face the dawn of a new memory age, article, 9/12/03, 5 pgs., Electronic Engineering Times, 1990, N.619, 41, CMP Media	
	C23	TOSHIBA, TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE CMOS, (TC58NS512DC) 3/21/2001, 43 pgs., Data Book	
	C24	TOSHIBA CORPORATION, SMIL (Smartmedia Interface Library) Hardware Edition Version 1.00, July 1, 2000, 36 pgs., Data Book	
	C25	TOSHIBA, TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE, (TC58512FT), 3/05/2001, 43 pgs., Data Book	
	C26	TOSHIBA, TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE, (TC58DVM92A1FT00), 1/10/2003, 44 pgs., Data Book	
	C27	TOSHIBA, TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE, (TC58DVG02A1FT00), 1/10/2003, 44 pgs., Data Book	
	C28	TOSHIBA, TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE, (TH58100FT), 3/05/2001, 43 pgs., Data Book	
	C29	35NONVOLATILE MEMORY TECHNOLOGY REVIEW, A Time of Change, Proceedings 1993 Conference, June 22-24, 1993, Linthicum Heights, MD USA	
	C30	TOSHIBA CORPORATION, SMIL (Smartmedia Interface Library) Software Edition Version 1.00, July 1, 2000, 136 pgs., Data Book	
	C31	TOSHIBA, MOS MEMORY (NON-VOLATILE), 1996, 279 pgs., Data Book	
	C32	DAN AUCLAIR, Optimal Solid State Disk Architecure For Portable Computers, symposium, July 9, 1991, 7 pgs., SunDisk Corporation	

C

Examiner Signature	Date Considered
--------------------	-----------------

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